BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Pre Measurement									
	10 mm main U bars	1.00	116.00	2.35			0.620		169.01	
	8mm Dia bars	1.00	21	11.50			0.400		96.60	
	46.30 60.00		1	13.70						
	10 mm main U bars	1.00	138.00	2.35			0.620		201.07	
	8mm Dia bars	1.00	21	13.70			0.400		115.08	
	60.00 72.00		1	12.00						
	10 mm main U bars	1.00	121.00	2.35			0.620		176.30	
	8mm Dia bars	1.00	21	12.00			0.400		100.80	
	Krishnappa Building Amco Layout Near Kodige halli main Road									
	0.00 30.00		1	30.00						
	10 mm main U bars	1.00	301.00	2.25			0.620		419.90	
	8mm Dia bars	1.00	20	30.00			0.400		240.00	
	30.00 50.00		1	20.00						
	10 mm main U bars	1.00	201.00	2.25			0.620		280.40	
	8mm Dia bars	1.00	20	20.00			0.400		160.00	
	50.00 81.00		1	31.00						
	10 mm main U bars	1.00	311.00	2.25			0.620		433.85	
	8mm Dia bars	1.00	20	31.00			0.400		248.00	
	Culverts									
	2nd B Cross Road RHS									
	0.00 3.50		1	3.50						
	12 main U bars	1.00	44	2.75			0.889		107.57	
	10mm Dia bars	1.00	28	3.50			0.620		60.76	
	2nd B Cross Road LHS Across Road									
	0.00 6.20		1	6.20						
	12 main U bars	1.00	78	2.75			0.889		190.69	
	10mm Dia bars	1.00	28	6.20			0.620		107.63	
	1st Main Road									
	17.00 23.50		1	6.50						
	12 main U bars	1.00	81	2.75			0.889		198.02	
	10mm Dia bars	1.00	28	6.50			0.620		112.84	
	41.50 46.30		1	4.80						
	12 main U bars	1.00	60	2.75			0.889		146.69	
	10mm Dia bars	1.00	28	4.80			0.620		83.33	
	Across Road									
	0.00 7.10		1	7.10						
	12 main U bars	1.00	89	2.75			0.889		217.58	
	10mm Dia bars	1.00	28	7.10			0.620		123.26	
									24941.49	**kgs**
								Total	**24.94**	**MT**
					Limited to BOQ Qnty				**24.87**	**MT**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/1/2019
Assistant Engineer

Assistant Executive Engineer
7/1/2019

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Pre Measurement Recorded on 25/1/2019									
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)									
	Maruthi Nagar @nd Stage Bhadrappa Layout									
	Culverts									
	2nd B Cross Road RHS									
	0.00 3.50		1.00	3.50			1.50		5.25	
	2nd B Cross Road LHS									
	Across Road									
	0.00 6.20		1.00	6.20			1.20		7.44	
	1st Main Road									
	17.00 23.50		1.00	6.50			1.50		9.75	
	41.50 46.30		1.00	4.80			1.50		7.20	
	Across Road									
	0.00 7.10		1.00	7.10			1.20		8.52	
							Total		**38.16**	**Sqm**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Assistant Engineer 23/1/2019

Assistant Executive Engineer

23/1/2019

Bruhat Bengaluru Mahanagara Palike

PROJECT DIVISION-YALAHANKA

Name of Agency :-M/s KRIDL

Bill No :- 1st and Final Bill

Name Of work : - Improvements to SWD in Ward No.08 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement										
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)										
	Maruthi Nagar @nd Stage Bhadrappa Layout										
	1st C/s Road										
	RHS										
	0.00	15.00		1	12.00			0.90		10.80	
	15.00	27.00		1	9.60			0.90		8.64	
	1st A C/s Road										
	LHS										
	34.00	64.00		1	3.60			0.90		3.24	
	RHS										
	0.00	30.00		1	15.00			0.90		13.50	
	30.00	60.00		1	12.00			0.90		10.80	
	60.00	90.00		1	3.00			0.90		2.70	
	2nd B Cross Road RHS										
	RHS										
	0.00	30.00		1	18.50			0.90		16.65	
	2nd B Cross Road LHS										
	LHS										
	0.00	30.00		1	3.60			0.90		3.24	
	RHS										
	0.00	30.00		1	15.00			0.90		13.50	
	30.00	60.00		1	15.00			0.90		13.50	
	3rd Cross Road RHS										
	LHS										
	0.00	30.00		1	8.00			0.90		7.20	
	30.00	60.00		1	11.40			0.90		10.26	
	60.00	61.00		1	1.00			0.90		0.90	
	RHS										
	0.00	30.00		1	11.00			0.90		9.90	
	30.00	60.00		1	10.00			0.90		9.00	
	3rd Cross Road LHS										
	LHS										
	0.00	30.00		1	22.20			0.90		19.98	
	30.00	60.00		1	30.00			0.90		27.00	
	60.00	84.00		1	24.00			0.90		21.60	
	RHS										
	7.80	37.80		1	10.00			0.90		9.00	
	37.80	67.80		1	10.00			0.90		9.00	
	67.80	90.00		1	9.40			0.90		8.46	
	1st Main Road										
	LHS										
	30.00	42.00		1	4.20			0.90		3.78	
	48.10	60.00		1	4.10			0.90		3.69	
	60.00	67.00		1	7.00			0.90		6.30	
	RHS										
	0.00	17.00		1	3.10			0.90		2.79	
	46.30	60.00		1	6.50			0.90		5.85	
	60.00	72.00		1	12.00			0.90		10.80	
									Total	**262.08**	**Sqm**

KUR CONSULTANTS

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019

Assistant Engineer

Assistant Executive Engineer

5/4/2019

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement									
2	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	Oty vide Pre measurement sheet page no . 1 to page no .2				2				1033.43	
							Total		**1033.43**	**cum**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Assistant Engineer

5/4/2019

Assistant Executive Engineer

5/4/2019

BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement									
3	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	Oty vide Pre measurement sheet page no . 3 to page no .4				4				231.54	
								Total	**231.54**	**cum**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

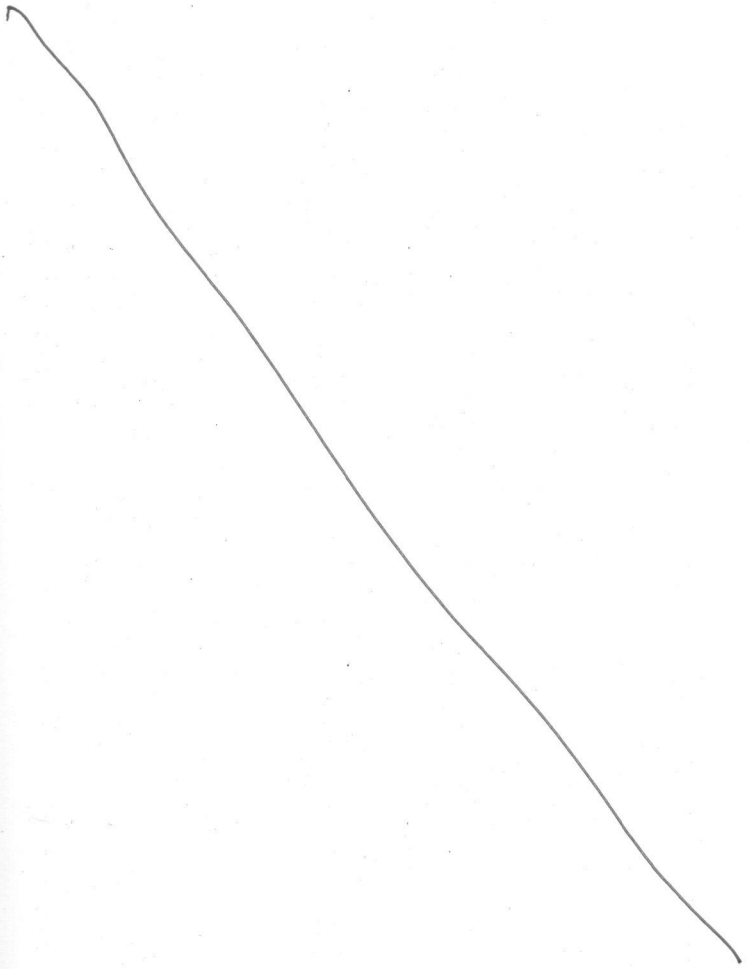
Assistant Engineer

5/4/2019

Assistant Executive Engineer

5/4/2019

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement									
4	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	Oty vide Pre measurement sheet page no .5 to page no .6								306.79	
							Total		**306.79**	**Sqm**



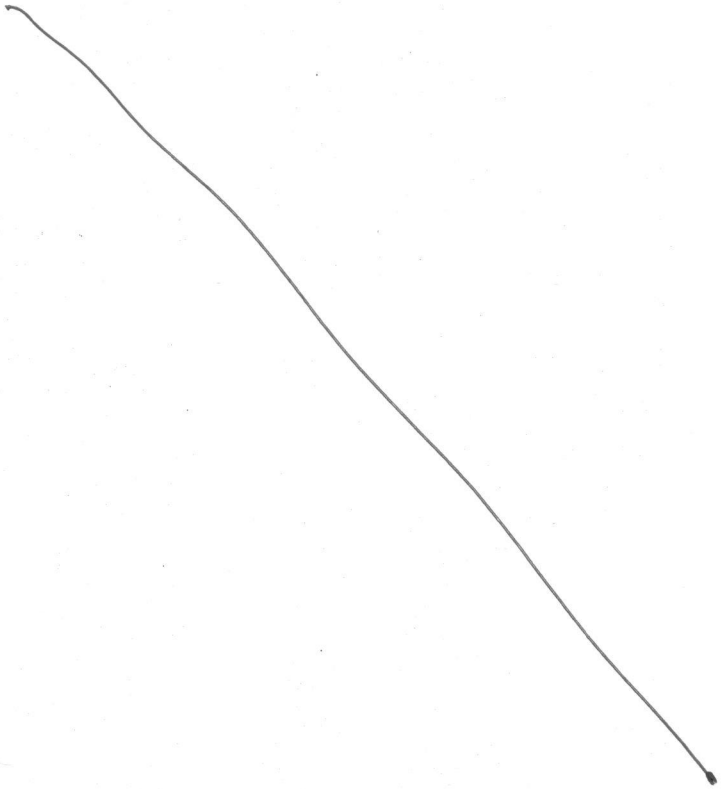
Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019
Assistant Engineer

Assistant Executive Engineer

5/4/2019

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement									
5	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	Oty vide Pre measurement sheet page no .7 to page no .8				8				2587.78	
							Total		**2587.78**	**sqm**



CONSULTANTS

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019

Assistant Engineer

Assistant Executive Engineer

5/4/2019

BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement									
6	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6									
	Oty vide Pre measurement sheet page no .9 to page no .12				12				405.21	
								Total	**405.21**	**Cum**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019
Assistant Engineer

Assistant Executive Engineer
5/4/2019

BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement									
7	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	Oty vide Pre measurement sheet page no .13 to page no .16				16				24.87	MT
								Total	**24.87**	**MT**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019
Assistant Engineer

Assistant Executive Engineer
5/4/2019

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement Recordedon 23/1/19										
8	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work										
	New Drain										
	Maruthi Nagar @nd Stage Bhadrappa Layout										
	1st C/s Road										
	LHS										
	0.00	9.70		1.00	9.70			0.90		8.73	
	RHS										
	0.00	15.00		1.00	3.00			0.90		2.70	
	15.00	27.00		1.00	2.40			0.90		2.16	
	1st A C/s Road										
	LHS										
	0.00	4.00		1.00	4.00			0.90		3.60	
	4.00	34.00		1.00	30.00			0.90		27.00	
	34.00	64.00		1.00	26.40			0.90		23.76	
	64.00	94.00		1.00	30.00			0.90		27.00	
	94.00	100.00		1.00	6.00			0.90		5.40	
	RHS										
	0.00	30.00		1.00	15.00			0.90		13.50	
	30.00	60.00		1.00	18.00			0.90		16.20	
	60.00	90.00		1.00	27.00			0.90		24.30	
	90.00	96.00		1.00	6.00			0.90		5.40	
	2nd B Cross Road RHS										
	LHS										
	0.00	30.00		1.00	30.00			0.90		27.00	
	30.00	43.50		1.00	13.50			0.90		12.15	
	RHS										
	0.00	30.00		1.00	11.50			0.90		10.35	
	30.00	33.50		1.00	3.50			0.90		3.15	
	2nd B Cross Road LHS										
	LHS										
	0.00	30.00		1.00	26.40			0.90		23.76	
	30.00	60.00		1.00	30.00			0.90		27.00	
	60.00	79.50		1.00	19.50			0.90		17.55	
	RHS										
	0.00	30.00		1.00	15.00			0.90		13.50	
	30.00	60.00		1.00	15.00			0.90		13.50	
	60.00	88.00		1.00	28.00			0.90		25.20	
	3rd Cross Road RHS										
	LHS										
	0.00	30.00		1.00	22.00			0.90		19.80	
	30.00	60.00		1.00	18.60			0.90		16.74	
	60.00	73.50		1.00	12.50			0.90		11.25	
	RHS										
	0.00	30.00		1.00	19.00			0.90		17.10	
	30.00	60.00		1.00	20.00			0.90		18.00	
	60.00	73.50		1.00	13.50			0.90		12.15	
	3rd Cross Road LHS										
	LHS										
	0.00	30.00		1.00	7.80			0.90		7.02	
	Across The Road										
	0.00	5.00		1.00	5.00			0.90		4.50	
	RHS										
	0.00	7.80		1.00	7.80			0.90		7.02	
	7.80	37.80		1.00	20.00			0.90		18.00	
	37.80	67.80		1.00	20.00			0.90		18.00	
	67.80	90.00		1.00	12.80			0.90		11.52	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019

Assistant Engineer

Assistant Executive Engineer

5/4/2019

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement										
	1st Main Road										
	LHS										
	30.00	42.00		1.00	7.80			0.90		7.02	
	42.00	48.10		0.00	0.00			0.90		0.00	
	48.10	60.00		1.00	7.80			0.90		7.02	
	RHS										
	0.00	17.00		1.00	13.90			0.90		12.51	
	23.50	30.00		1.00	6.50			0.90		5.85	
	30.00	41.50		1.00	11.50			0.90		10.35	
	46.30	60.00		1.00	7.20			0.90		6.47	
	Krishnappa Building ~~Amco~~ Layout Near Kodige halli main Road										
	0.00	30.00		1.00	30.00			0.75		22.50	
	30.00	50.00		1.00	20.00			0.75		15.00	
	50.00	81.00		1.00	31.00			0.75		23.25	
								Total		603.98	Sqm

Consultant

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBNP, Bangalore

5/4/2019
Assistant Engineer

Assistant Executive Engineer

5/4/2019

BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Detailed Measurement									
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)									
	Qty vide Pre measurement sheet page no .17								38.16	
							Total		**38.16**	**Sqm**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019

Assistant Engineer

Assistant Executive Engineer

5/4/2019

Detailed Measurements

Bruhat Bengaluru Mahanagara Palike

PROJECT DIVISION-YALAHANKA

Name of Agency :-M/s KRIDL

Bill No :- 1st and Final Bill

Name Of work : - Improvements to SWD in Ward No.08 Kodigehalli

BOQ Item No	Description / Chainage	Side	Nos	L	B	D	Quantity	Rate	Amount	Remarks
	ABSTRACT BILL									
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)									
						Total	262.08	111.3	**29169.50**	**Sqm**
2	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
						Total	1033.43	220.40	**227768.48**	**cum**
3	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
						Total	231.54	5505.64	**1274797.91**	**cum**
4	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
						Total	306.79	273.48	**83900.93**	**Sqm**
5	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
						Total	2587.78	379.48	**982011.97**	**sqm**

Consultant

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019

Assistant Engineer

Assistant Executive Engineer

5/4/2019

BOQ Item No	Description / Chainage	Side	Nos	L	B	D	Quantity	Rate	Amount	Remarks
	ABSTRACT BILL									
6	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6									
						Total	405.21	5998.54	**2430691.07**	**cum**
7	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
						Total	24.87	75223.96	**1871045.69**	**MT**
8	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
						Total	603.98	2111.00	**1274992.49**	**Sqm**
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)									
						Total	38.16	5111.00	**195035.76**	**Sqm**
								Total	**8369413.81**	
								12% GST	**1004329.66**	
								Add 4 % KRIDL Charges	**334776.55**	
								Grand Total	**9708520.02**	

CONSULTANT

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

5/4/2019

Assistant Engineer

Assistant Executive Engineer

5/4/2019